PERICOM [®] Saronix-ecera [®] PSE Technology Corporation				
I FOR	APPROVAL			
32.7	768 KHz			
2 Series Cylinder Th	nrough Hole Quartz Crystal			
G23	3270023			
Nov.6,2015				
VERSION				
REPARED	QA			
lane	Dong Young			
DMER:	AVL Status			
oval to PSE-TW				
N trial Park, R.O.C.) *Rol *HF·	HS Exception -Halogen Free ACH Compliant			
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G2 Series 2.0x6.0mm Cylinder Through Hole Quartz Crystal

G23270023

VER. A 4-Feb-10

VERSION HISTORY

Version No.	Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes
А	Nov.6,2015			Initial Release	



G2 Series 2.0x6.0mm Cylinder Through Hole Quartz Crystal

G23270023

VER. A 4-Feb-10

ELECTRICAL SPECIFICATIONS

SRe Part Number : G23270023

Parameters	Symbol	Specifications	Units	Notes
Nominal Frequency	Fn	32.768	KHz	
Mode of Oscillation	MO	Fundamental		+2° X-Cut
Drive Level	DL	1	μW	Max.
Load Capacitance	CL	12.5	pF	Typical
Frequency Tolerance	FT	±20	ppm	at 25℃ ± 5℃
Operating Temperature Range	TR	-10 to +60	°C	
Equivalent Series Resistance	ESR	35	KΩ	Max.
Shunt Capacitance C0	C0	1.5	pF	Typical
Temperature Coefficient	К	-0.04	ppm/ $^{\circ}C^2$	Max.
Aging		± 3	ppm	Max 1st year
Insulation Resistance		500	MΩ	at DC 100V ± 15V

Reliability (Mechanical and Environmental Endurance)

No.	Test Items	Test Method and Condition	Requirements
1	Vibration	(1) Vibration Frequency: 10 to 55Hz	Frequency Change: ±10ppm Max.
		(2) Vibration Amplitude: 1.5mm	Resistance Change:5kohm Max.
		(3) Cycle Time: 1-2min(10-55-10Hz)	
		(4) Direction: X.Y.Z	
		(5) Duration: 2h/each direction	
2	Shock	3 Times free drop from 75cm height to hard wooden	Frequency Change: ±10ppm Max.
		board of thickness more than 30mm	Resistance Change:5kohm Max.
3	Leakage	Put crystal units into a hermetic container and	Leakage: 1x10 ⁻ 8Pa·m1/s Max.
		Helium for 0.5-0.6Mpa, and keep it for 1h;	
		Check the leakage by a Helium leak detector	



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4	Lead Strength	The crystal lead with the 0.9kg(9N) power (keep it for	The crystal lead is not abnormity	
	(DIP)	30s±5s) and bend the crystal lead 90° with 0.45kg		
		power and two times		
5	High Temperature	The crystal units shall be put in somewhere for 2 hrs	Frequency Change: ±10ppm Max.	
	Endurance	at temperature of $85^{\circ}C \pm 2^{\circ}C$, then keep it for 1 to 2 hrs	Resistance Change:5kohm Max.	
		under room temperature.		
6	Low Temperature	The crystal units shall be put in somewhere for 2 hrs		
	Endurance	at temperature of -25 $^\circ\!\!\mathbb{C}$, then keep it for 1 to 2 hrs		
		under room temperature.		
7	Humidity	The crystal units shall be put in somewhere at $40^\circ\!\!\mathbb{C}$		
	Endurance	in relative humidity of 90-95% for 48 hrs, then keep		
		it for one or two hours under room temperature.		
8	Temperature	Temperature shift from low(-40 $^\circ \rm C$) to high(100 $^\circ \rm C$, keep		
	Cycle	30 mins), satisfy high(100 $^\circ\!{\rm C}$) to low(-40 $^\circ\!{\rm C}$, keep		
		30 mins), then go up to room temperature for 5 cycles.		
10	Salt Spray Test	Put the crystal units in the salt spray room (salt	The appearance shall has no abnormity	
		density: 5%) at the temperature of 35 $^\circ\!\mathrm{C}$ for 96 hrs.	and soldering is good.	
		Then clean it with water and dry its surface.	Frequency Change: ±10ppm Max.	
			Resistance Change:5kohm Max.	





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PACKING





Quantity for Each Bag : 1000 pcs





